10/629/73

METHOD OF FABRICATING LONG-WAVELENGTH VCSEL

AND APPARATUS

Field of the Invention

7 This invention relates to a method of fabricating a vertical 8 cavity surface emitting laser which is capable of emitting long-9 wavelength light and to the vertical cavity surface emitting 10 laser.

Background of the Invention

23 :

Vertical cavity surface emitting lasers (VCSELs) include first and second distributed Bragg reflectors (DBRs) formed on opposite sides of an active area. The VCSEL can be driven or pumped electrically by forcing current through the active area or optically by supplying light of a desired frequency to the active area. Typically, DBRs or mirror stacks are formed of a material system generally consisting of two materials having different indices of refraction and being easily lattice matched to the other portions of the VCSEL. In conventional VCSELs, conventional material systems perform adequately.

10. X Amend the specification by inserting before the firs	t
line the sentence: This application is a	
continuation, X division, of application Serial	45
Number 09/642,359, filed 21 August 2000 PA7 6,628,6	<i></i>
11. X 3 sheets of formal drawings and 1 copy of same	
are enclosed.	
. 12 sheet(s) of informal drawings and 1 copy of	•
same are enclosed.	٠
13. A Pre-examination Amendment is enclosed.	
14. Transfer the drawings from the pending prior	
application to this application and abandon said prio	r
application as of the filing date accorded this	
application. A duplicate copy of this sheet is	
enclosed for filing in prior application file. (May	
only be used if signed by person authorized by Section	n
1.138 and before payment of base Issue Fee.)	•
15. Priority of application Serial No file	d
on 19 in i	s
claimed under 35 U.S.C. 119.	
The certified copy has been filed in prior application	n
Serial No. , filed , 19	
16. The prior application is assigned of record to	
17. An Assignment is enclosed.	
18. X A Request for Non-Publication	
19. Also enclosed,	